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*Abstract*

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This invention relates to a multi-ch optical transceiver module, which comprises: (1)a plurality of optical subassembly (OSA) units, for transforming the received multi-ch optical signals to multi-ch electrical signals, and transforming the multi-ch electrical signals to be transmitted to multi-ch optical signals respectively; (2)a plurality of special signal processing IC units, for disposing the multi-ch electrical signals received from said OSA units and for outputting the multi-ch electrical signals to be transmitted to said OSA units after disposal; (3)an electrical connector unit, for outputting multi-ch electrical signals received from said special signal processing IC units and inputting multi-ch electrical signals to be transmitted to the special signal processing IC units before transmitting. This multi-ch transceiver module is mainly used at switch devices at center office of telecom and datacom network. It also can be used in high-density environment.